

**IMPLEMENTING RF POWER MEASUREMENTS IN A BROADBAND
COMMUNICATIONS DEVICE**

ABSTRACT

5 The invention provides systems, methods, and devices that compensate for
temperature, frequency, and sampling effects in a broadband communication
device's power measurements. One embodiment of a system includes a thermal
device, and an automatic gain control circuit coupled to the thermal device. One
method includes the acts of disabling a TOP operation, setting a RF input power,
reading an AGC GAIN value, and setting the broadband communications device
10 based on the read AGC value. Furthermore, a broadband communications device
according to the invention may operate by disabling a TOP operation, setting a RF
input power, reading an AGC GAIN value, and setting the broadband
communications device based on the read AGC value.